

**2012
WORKS!**

*Blazing
New Trails
in
Sustainability*

March 27-29, 2012

**Magouirk Conference
Center
Dodge City, Kansas**

**CONFERENCE
TRACKS**

HHW Training

Recycling / Waste Reduction

Energy from Waste /
Composting

Beginning Composting

'Hands On' Workshops

Roundtable Discussions

Facility Tours



Bureau of Waste Management

2012
WORKS!



Kansas Department of Health and Environment - Bureau of Waste Management
1000 SW Jackson, Suite 320 Topeka, KS 66612-1366
785-296-1600 1-800-282-9790

Mission: To promote responsible choices to protect the health and environment for all Kansans.



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2012
WORKS!



Welcome to WORKS! 2012

I am pleased to welcome everyone to the 18th annual WORKS Conference. This is the first time that we have brought WORKS to southwest Kansas, a place that seems like home to me since most of my wife's family lives in Garden City and areas south to Sublette.

As always, we have an excellent group of speakers who will educate and challenge us all to manage our wastes better as we reduce generation and recover energy and material resources from recyclable materials. While the core topics of WORKS continue to be composting, recycling, and household hazardous waste collection, the energy recovery track of the conference continues to grow. Just a few years ago at Bethany College, we first introduced the gas recovery concept into the conference focusing on gas recovery at landfills. Each year since then we have expanded the scope of our energy tract presentations and now, here in southwest Kansas, the home of many large cattle, hog, dairy, and meat processing operations, we are thoroughly examining energy recovery possibilities as they relate to these industries.

KDHE wants to thank all of our presenters and exhibitors, and other partners such as the Kansas Organization of Recyclers, who make this conference possible and valuable to attendees. We are especially looking forward to our keynote panel discussion featuring three nationally recognized waste management professionals, Jerry Powell of Resource Recycling, Jeremy O'Brien of SWANA, and Robert Rynk of New York State University. We expect some lively interchange between these experts as they respond to our probing questions and to each other.

Please enjoy your time in Dodge City and as always, I would appreciate hearing some feedback about how we can make the WORKS Conference even more valuable to you in future years.

Bill

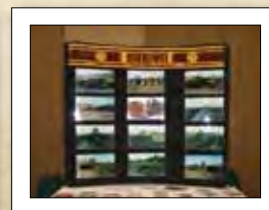
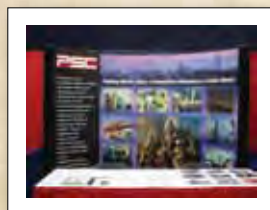
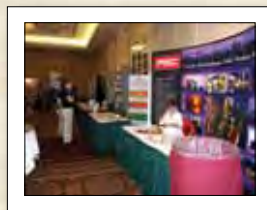
Bill Bider
Director
Bureau of Waste Management



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Exhibitors

Burns & McDonnell Engineering Company, Inc
Chamness Technology Inc
Champlin Tire Recycling
Deffenbaugh Industries
Enerdyne Power Systems, Inc.
Engineering Solutions & Design Inc
Foley Equipment Company
HR Green Inc.
J-2 Contracting Company
Kansas Department of Health and Environment
Kansas Organization of Recyclers
Komptech USA
Manhattan Convention & Visitors Bureau
Midwest Biosystems
Resource Recovery
Ripple Glass
Terracon
UNICOR-Electronic Recycling
Unison Solutions, Inc
US Environmental Protection Agency Region VII
Veolia Environmental Services
WasteQuip/Toter



Presenters



Rebecca Bergkamp , GE Aviation
Bill Bider, KDHE/Bureau of Waste Management
Jack Chappelle, Engineering Solutions &
Design Inc
Carl Clifton, Arion Energy
Sylvan Coles, City of Topeka
Rick Druse, Dodge City Community College
Dave Evans, Westar
Steve Fishman, EPA Region VII
David Hazel, Cargil Beef
Kylo Heller, KLA Dairy Council
Catherine Hernandez, Kansas Division of
Emergency Management
Lindsay Holmes, Barton County Community
College
David Kaminski, SWANA
David Keeling, Steel Recycling Institute
Marty Kowalski, Sonoco Recycling
Kim Krieb, Cargil Beef
Nancy Larson, KSBEA Program

Chris Leone, J-2 Contracting Company
Josh Littlejohn, Forget-Me-Not Farms
Bud Ludwig, National Beef
Steven McNinch, Western Plains Energy LLC
Michael Michels, Cornerstone Environmental
Timothy Moore, UNICOR-Electronic Recycling
Robert Moser, M.D., Secretary, Kansas
Department of Health and Environment
Andrew Murphy, Innovative Livestock Services, Inc
Jeremy O'Brien, SWANA
William Patrick, High Plains Bioenergy
Jerry Powell, Resource Recycling Inc
Ken Powell, KDHE/Bureau of Waste Management
Kris Ragan, National Beef
Robert Rynk, State University of New York, SUNY
Cobleskill
Jim Sherer, City of Dodge City
Stan Slaughter, Tall Oak Productions
Ken Spencer, City of Dodge City
Josh Stratton, J-2 Contracting Co
Sam Sunderraj, KDHE/Bureau of Waste
Management
Mike Tabor, Seward County Landfill
Doug Tholo, HR Green Inc
John Truitt, Barton County Community College
Jody Wacker, Kansas Livestock Association
Jessica Willard, KDHE/Bureau of Waste
Management



2012
WORKS!

March 27-29, 2012

Magouirk Conference Center

Dodge City, Kansas

Tuesday, March 27, 2012 (Exhibit Hall and Registration Area open all day)

7:30 **Registration and Light Breakfast** (Exhibit Hall)

8:30 **Opening General Session**

Welcome - Dodge City **Vice Mayor Jim Sherer**, City of Dodge City

Solid Waste Issues in Kansas - **Bill Bider**, Director, Kansas Dept. of Health & Environment, Bureau of Waste Management

Keynote Presentation: How National Perspectives Relate to Kansas -

Jerry Powell, Resource Recycling

Jeremy O'Brien, SWANA

Robert Rynk, State University of New York, SUNY Cobleskill

Break (Exhibit Hall)

11:00 **Concurrent Sessions**

HHW (preparatory session for afternoon 'hands on' workshop) - **Fire Safety Training**, **Ken Spencer**, City of Dodge City

Recycling/Waste Reduction (preparatory session for afternoon 'hands on' workshop) - **Waste Characterization 101 in the Classroom**, **Jack Chappelle, P.E.**, Engineering Solutions and Design

Composting - **Stan Slaughter**, Tall Oak Productions; **Robert Rynk**, State University of New York

Energy from Waste (preparatory session for afternoon 'hands on' workshops) - **Overview of the Western Plains Energy Anaerobic Digestion Project**, **Steve McNinch**, Western Plains Energy LLC

12:00 - 1:00 **Lunch** (Exhibit Hall)

1:30-4:30 **'Hands On' Workshops**

HHW - **Handling and Identification of Unknown Chemicals** - Barton County Community College

Recycling/Waste Reduction - **Waste Characterization 101 in the Classroom**, **Jack Chappelle, P.E.**, Engineering Solutions and Design (In United Wireless Arena next to Exhibit Hall)

Energy from Waste/Composting - **Kim Grieb** and **David Hazel**, Cargil Beef; **Josh Littlejohn**, Forget-Me-Not-Dairy; **Jodi Wacker** and **Kylo Heller** KLA Dairy Council; **Mike Tabor**, Seward County Landfill, **Bill Patrick**, High Plains Bioenergy, Seaboard Foods

6:00 **Evening Social Event** - KDHE (Exhibit Hall)



Light Hors d'Oeuvres & Cash Bar

Tuesday, March 27 6:00 pm
Exhibition Hall



Kansas Department of Health & Environment
Bureau of Waste Management

Bus Tours

Wednesday, March 28

1:30 - 4:30

- Forget-Me-Not-Dairy, Cimarron
- Chamness Technology Composting, Dodge City
- Ford County Landfill
- Santa Fe Trail Ruts

Busses leave from in front of
Convention Center at 1:30 pm

Wednesday, March 28, 2012 (Exhibit Hall and Registration Area open all day)

- 7:30 **Registration & Hot Breakfast** (Exhibit Hall)
- 8:30 **Concurrent Sessions**
HHW - *HHW Program Updates*, Jessica Willard, KDHE
Recycling/Waste Reduction - *Social Media & Marketing*, Rick Druse, Dodge City Community College
Composting - *Stan Slaughter*, Tall Oak Productions
Energy from Waste - *What it Takes to Make a Successful Waste to Energy Project*, Doug Tholo, HR Green
- Break
- 9:45 **Concurrent Sessions**
HHW - *Emergency Plans and Management for HHWs*, Catherine Hernandez, Kansas Division of Emergency Management
Recycling/Waste Reduction - *The Road to Recycling, Literally!*, Josh Stratton and Chris Leone, J-2 Contracting Company
Composting - *Stan Slaughter*, Tall Oak Productions
Energy from Waste - *Got Organic Waste - You Got Gas Potential*, Mike Michels, Cornerstone Environmental
- Break (Exhibit Hall)
- 11:00 **Concurrent Sessions**
HHW - *Pharmaceutical Waste, Community Outreach, and Educational Opportunities for HHWs*, Nancy Larson, Kansas Small Business Environmental Assistance Program
Recycling/Waste Reduction - *Setting Goals for Waste Reduction*, Steve Fishman, EPA Region VII and Rebbecca Bergkamp, Engine Services GE Aviation
Energy from Waste - *Liquid Organic Wastes to Landfills or Mechanical Digesters - Benefits of Both*, Sam Sunderraj, KDHE and Carl Clifton, Arion Energy
- 12:00-1:00 **Lunch** (Exhibit Hall)
- 1:30 **Tours & Demonstrations** (Busses leave in front of Convention Center)
- 6:30 **Kansas Organization of Recyclers (KOR) Evening Social Event**

Thursday, March 29, 2012

- 7:30 **Breakfast** (Exhibit Hall)
- 8:30 **Plenary Session & Awards Presentations**
Presentation of 2012 Hall of Fame Award and 2012 Kansas Environmental Steward Award - Robert Moser, M.D., Secretary, Kansas Department of Health and Environment
National Beef - Corporate Vision - National Initiatives and Plans, Bud Ludwig, Kris Ragan
- Break and Check Out
- 10:30 **Roundtable Sessions**
HHW
Recycling/Waste Reduction - E-waste, Ag Plastics, Metals, and Fibers
Energy from Waste
Composting - Beginning and Advanced
- 12:00 **Closing Lunch** - *Slow Smoked Western Kansas Beef BBQ*



THE KOR SOCIAL AT WORKS!

Wednesday, March 28 6:30 - 8:00 pm

Magouirk Conference Center

Food, drink, music

ALL WORKS!
attendees
invited!

- Network
- Catch up on KOR activities
- Giveaways !



2012
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Concurrent Sessions Descriptions



Tuesday, March 27, 2012

8:30 General Session

Jim Sherer, Vice Mayor, Dodge City, **Welcome**

Bill Bider, Director, Kansas Dept. of Health & Environment, Bureau of Waste Management, **Solid Waste Issues in Kansas**

Keynote Presentation, How National Perspectives Relate to Kansas

Jerry Powell, Resource Recycling

Jeremy O'Brien, SWANA

Robert Rynk, State University of New York, SUNY Cobleskill

Hear from these renowned experts about what national issues are on the forefront with respect to integrated solid waste management systems and how they relate to us here in Kansas. You will have the exceptional opportunity to ask them pointed questions and benefit from their sage replies.

Followed by Rapid Fire Q/A moderated by Bill with Jerry, Jeremy, and Robert

11:00 Sessions - these sessions are preparatory for the afternoon 'Hands On' Workshops

Recycling/Waste Reduction - Jack Chappelle, P.E., Engineering Solutions and Design, **Waste Characterization 101 in the Classroom**

HHW - Fire Safety Training

Energy from Organics - Steve McNinch, Western Plains Energy LLC, **Overview of the Western Plains Energy Anaerobic Digestion Project**

Composting - Stan Slaughter, Tall Oak Productions, **Bob Rynk**, State University of New York, will be leading a discussion of possible uses for organics from southwest Kansas.

1:30 - 4:30 'Hands On' Workshops

Recycling/Waste Reduction - Waste Characterization Study & Audit, Jack Chappelle, P.E., Engineering Solutions and Design (in the United Wireless Arena)

This will be a truly unique opportunity to experience firsthand the fundamentals of conducting a waste characterization study via an audit of freshly generated local solid waste. We will sort and determine what, if any, diversion practices may be employed or enhanced to increase recycling or composting opportunities. You will be able to directly apply what you learn here to your local operations. Join Mr. Chappelle, who is outstanding in his field, inside the climate controlled confines of the convention center!

Energy from Waste/Composting - A virtual 'hands-on' session at the conference center where presenters will introduce attendees to their facility's current organic waste management. They will discuss the organic component from origin to final disposition and include discussions of options that may be presented to them and that they have considered. **Kim Grieb and David Hazel**, Cargill Beef; **Josh Littlejohn**, Forget-Me-Not Dairy; **Jodi Wacker** and **Kylo Heller**, KLA Dairy Council; **Seaboard to Seward County Landfill, Mike Tabor**, Seward County Landfill and **Bill Patrick**, High Plains Bioenergy, Seaboard Foods

HHW - Barton County Community College will provide hands on training covering handling and identification of unknown chemicals. (at Convention Center - check at Registration Desk for location)

6:00 Evening Social Event

KDHE - An Evening with the Old Wild West Dodge City Hooligans
At the Convention Center



Wednesday, March 28, 2012

8:30 - 9:30 Sessions

Recycling/Waste Reduction - Social Media & Marketing - Rick Druse, Dodge City Community College. In this informative session, you will hear from an expert in social media and marketing. These two topics are often seen together, however, they are distinctly different. Learn the difference and how to use them both to best create awareness of your program efforts.

Energy from Waste - What it Takes to Make a Successful Organic Materials to Energy Project - Landfill Gas, Biogas, or Combinations? Anaerobic Digesters, Generators or Microturbines - Doug Tholo, HR Green

HHW - HHW Program Updates - Jessica Willard, Kansas Department of Health and Environment, Bureau of Waste Management

Beginning Composting - all day - Stan Slaughter, Tall Oak Productions, will again be leading this popular session. This is an opportunity to learn about the composting process from a true educator. From planning to operating a composting facility, Stan will lead the attendees in an informative discussion format. He will also provide information on use of the finished compost. This session will be of value to those wanting to freshen up their composting knowledge.

9:45 - 10:45 Sessions

Recycling/Waste Reduction - Josh Stratton and Chris Leone, J-2 Contracting Company, **The Road to Recycling, Literally!** Mr. Stratton knows which road to take to get to the end destination of effective recycling. Come learn about how your local unit of government can take advantage of recycling a material that is literally beneath your feet, or should we say tires!

Energy from Waste - Got Organic Waste - You Got Gas Potential. 16,000 cfm to 20 cfm, it Can Be Beneficially Used - Mike Michels, Cornerstone Environmental

HHW - Emergency Plans and Management for HHWs, Catherine Hernandez, Kansas Division of Emergency Management

Beginning Composting - all day - Stan Slaughter, Tall Oak Productions

11:00 - Noon Sessions

Recycling/Waste Reduction - Steve Fishman, EPA Region VII, and **Rebecca Bergkamp**, EHS Specialist, Engine Services GE Aviation. **Setting Goals for Waste Reduction**. This session will provide insight and a look at innovative approaches to setting and achieving goals in waste reduction not only from the EPA governmental perspective but also from an actual private business and industry point of view.

Energy from Waste - Liquid Organic Wastes to Landfills or Mechanical Digesters - Benefits of Both - Sam Sunderraj, Kansas Department of Health & Environment, and **Carl Clifton**, Arion Energy.

HHW - Pharmaceutical Waste, Community Outreach, and Educational Opportunities for HHWs, Nancy Larson, Pollution Prevention Institute, Kansas Small Business Environmental Assistance Program.

Beginning Composting - all day - Stan Slaughter, Tall Oak Productions

1:30 - 4:30 Tours & Demonstrations

- Forget-Me-Not-Dairy, Cimarron
- Chamness Technology Composting, Dodge City
- Ford County Landfill
- Santa Fe Trail Ruts

6:30 Evening Social Event

Kansas Organization of Recyclers

Concurrent Sessions Descriptions



Thursday, March 29, 2012

8:30 - Plenary Session & Awards Presentation

Hall of Fame Inductee and Kansas Environmental Steward Award Presentations - Robert Moser, M.D., Secretary, Kansas Department of Health and Environment

National Beef - Corporate Vision - National Initiatives and Plans - Facilities harvest beef cattle and have significant efforts in recycling, composting and energy recovery from waste. These efforts benefit the environment in the local communities. **Bud Ludwig** and **Kris Ragan**, National Beef

10:00 - 10:30 - Break & Check Out

10:30 Roundtable Sessions

Recycling/Waste Reduction - E-waste, Ag Plastic, Market Updates with **Dave Keeling**, General Manager Western United States, Steel Recycling Institute; **Marty Kowalski**, Sonoco Mill Supply Manager, Central Region; and **Tim Moore**, Production Controller, UNICOR. Catch up on the latest trends, prices, products, and challenges in the recycled products commodity market. Hear from three of the most knowledgeable experts about what you should know to maximize your operation's material marketing strategies.

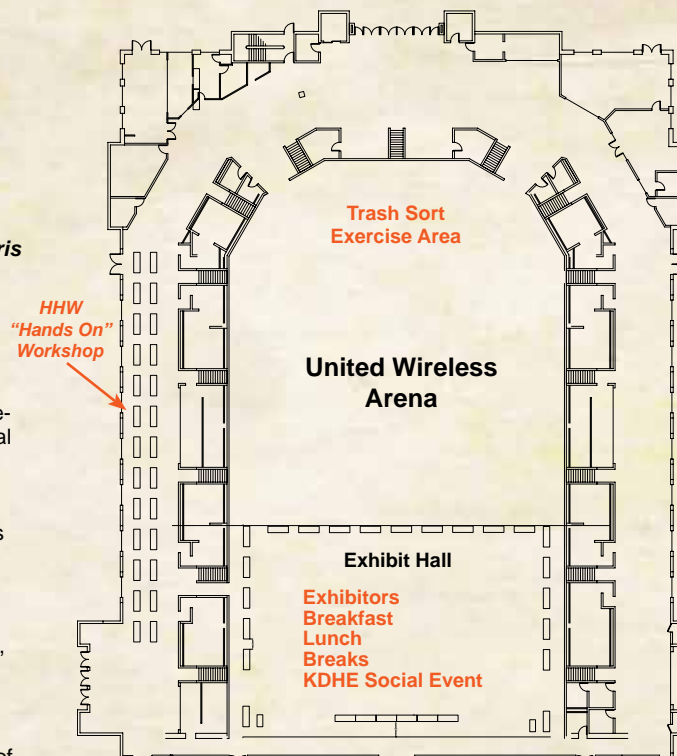
Energy from Waste - Issues of Interest/Issues to be Addressed - **David Kaminski**, SWANA's LFG Extraction and Control Committee; **Dave Evans**, Westar; **Andrew Murphy**, Innovative Livestock Services, Inc., and **Sylvan Coles**, City of Topeka

HHW - Issues of Interest/Issues to be Addressed

Composting - Beginning and Advanced - Bring questions on areas of interest for you and your facility. Some topics we will be discussing are financing the facility from both a private and public sector point of view, marketing the compost, what quality does your market demand, how do you upgrade your facility to take additional materials, and what do you want to learn about at the next conference.

12:00 - Closing Lunch

Slow Smoked Western Kansas Beef BBQ



2012
WORKS!

Keynote - General Session
Tuesday 8:30 am

***How National Perspectives
Relate to Kansas***



JERRY POWELL, President, Resource Recycling, Inc., Portland, Oregon

Jerry is the owner of three magazines (*Resource Recycling*, *Plastics Recycling Update* and *E-Scrap News*). He founded and managed a recycling consulting firm for a decade and a recycling business in Portland, Oregon for more than eight years.

He is a past three-time chair of the board of the National Recycling Coalition and a three-time chair of the board of a state recycling association. He has spoken on waste management recycling issues in 48 states and five Canadian provinces.



JEREMY K. O'BRIEN, Director of Applied Research, Solid Waste Association of North America (SWANA)

Jeremy is a solid waste management researcher and consultant with over 30 years of experience in the industry. As Director of Applied Research for SWANA, he continues to provide consulting services to local governments as an independent solid waste management consultant.

He has been employed by HDR, Inc., a global architectural, engineering and consulting firm and by Public Technology Institute, a local government organization serving as the technical arm of the National League of Cities and the International City Management Association. He began his career as a Research Associate at the National Center for Resource Recovery, Washington, DC.

Mr. O'Brien received an M.S. degree from Duke University in Urban and Environmental Engineering and a B.S. degree in Liberal Arts from Duke University. He obtained his Professional Engineering registration and license in 1984.



BOB RYNK, Associate Professor of Agricultural Engineering, State University of New York, Cobleskill Campus (SUNY Cobleskill)

Bob's areas of expertise include waste management, natural treatment processes and alternative energy. His work at SUNY Cobleskill includes teaching courses on composting, waste management and bioenergy and researching on-farm compost production.

Prior to SUNY Cobleskill, Bob was Senior Technical Editor for *BioCycle* magazine and Executive Editor of the peer-reviewed journal, *Compost Science and Utilization*.



2012 Kansas Solid Waste Hall of Fame Inductee

Bill Eberle

A native of Lafayette, Indiana, Bill received a B.S. in Agronomy at Purdue University; an M.S. in Soils (Pedology, Land use) at the University of Illinois; and a PhD in soils (Pedology, Land Use) at the University of Illinois.

As an Extension Specialist, Land Use, in the Community Development Department at Kansas State University, Bill was responsible for developing and conducting statewide educational programs in land use planning and regulation, community planning, water rights, soil interpretation for land development, on-site wastewater disposal, and waste management.

In 1981, he became the Assistant Director of Extension for Community Development at Kansas State University having overall responsibility for development and coordination of statewide Extension education programs in community development, administrative responsibility for faculty assigned to the community development unit, and community development grants coordination and administration. Bill conducted educational programs in conflict management, community leadership development, and continued previous programs as time permitted.

While in the Department of Agronomy, Kansas State University, as a Land Resource Specialist from 1993 - 2003, Bill developed new educational programming in beneficial use of organic residuals. He began teamwork with Ken Powell of Kansas Department of Health and Environment (KDHE) in developing educational programs and technical assistance in large scale composting. A demonstration/teaching compost facility in the Department of Agronomy was developed. Bill worked with KDHE in developing and conducting an annual Kansas Composting Operators' School. He assisted in developing advanced composting training for the KDHE **WORKS!** Conference and assisted in several other related conferences. An ongoing dialogue with KDHE staff in composting and beneficial use of organic residuals was maintained.

In 2003, Bill became Emeritus Associate Professor, retired, and at the present serves as a private consultant (Terrenew Consulting). He continued a part time appointment at Kansas State University Agronomy from 2003 to 2011 under a contract with the KDHE Bureau of Waste Management.

Bill and his wife moved from Manhattan, Kansas to Emporia, Kansas in 2004 where his wife joined the faculty of Emporia State University. He initiated a consulting firm in beneficial uses of organic residuals under the name Terrenew Consulting.

Currently, Bill is phasing out consulting activities into full time retirement.



2012 Kansas Environmental Steward Award

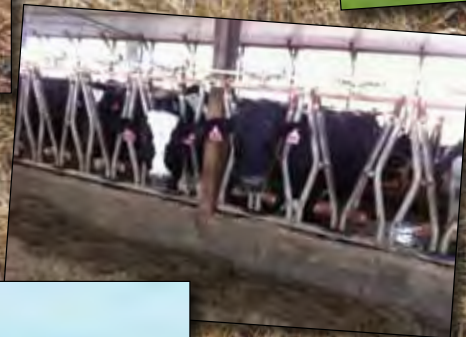
Nick Benson

Nick is an Environmental Studies student at the University of Kansas and participates in many groups and activities beyond his basic course load. His list of environmental accomplishments include:

- Web designer / IT Intern at Kansas Association for Conservation & Environmental Education (KACEE).
- Crew leader with KU Recycling. During football season, this includes weekends when he leads a volunteer recycling group at games.
- Vice president of student group Environs, a member of From Blue to Green, and vice chair of the Student Environmental Advisory Board.

Nick is also a member of the Wetlands Preservation Organization, a supporter of University of Kansas Student Farm, and serves on the Sustainability Advisory Board for the City of Lawrence, filling the Youth and Government position.

THE MANY SCENES. . .



OF SOUTHWEST KANSAS





**March 26-28
2013**

**2013
works!**

**Manhattan Conference Center
Hilton Garden Inn**

Manhattan, Kansas



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2012
WORKS!



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